

Introduction to GSIM

Jenny Linnerud (Statistics Norway)



jal@ssb.no



Agenda for Introduction to GSIM

What is GSIM?

Relationship between GSIM and GSBPM

Top-level information object groups

More information on GSIM





Modernisation

- Modernisation of statistics can be supported by:
 - Reuse and sharing of methods, components, processes, metadata and data
- Generic Statistical Information Model (GSIM) is the first internationally endorsed reference framework for statistical information
 - by statistical organisations for statistical organisations
- This overarching <u>conceptual</u> framework plays an important role in modernising, streamlining and aligning the standards and production associated with official statistics, at both national and international levels.





What is GSIM?

• It is a reference framework of internationally agreed definitions, attributes and relationships that describe the pieces of information used in the production of official statistics (information objects).

• This framework enables generic descriptions of the definition, management and use of data and metadata throughout the statistical production process.





Developing GSIM -> v1.0 2012

WHO WAS INVOLVED?





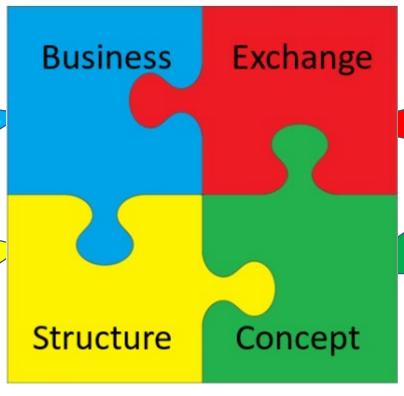


Top-level information object groups

- User needs
- The structure of a statistical program, process steps, methods, rules
- Execution of the process
- How is data structured, what format is it in, where is it stored
- Reference metadata documention

Reusable attributes for information objects, identity, versioning etc





The information that comes in and out of the organisation, exchange channels, provision agreements.

Statistical content - definitions of concepts, variables, populations, unit types
The meaning of codes; statistical classifications, code lists





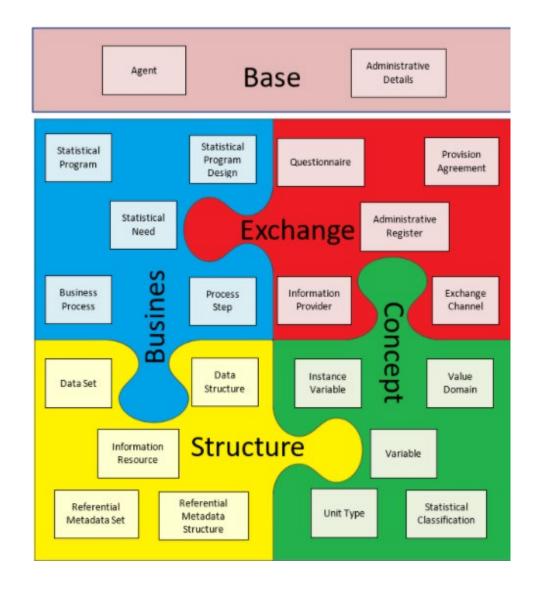
4 top-level groups

- The **Concept** group is used to define the meaning of data, providing an understanding of what the data are measuring.
- The Structure group is used to structure information throughout the statistical business process.
- The **Business** group is used to capture the designs and plans of *Statistical Programs*, and the processes undertaken to deliver those programs. This includes the identification of a *Statistical Need*, the *Business Processes* that comprise the *Statistical Program* and the *Assessment* of them.
- The Exchange group is used to catalogue the information that comes in and out of a statistical organisation via Exchange Channels. It includes information objects that describe the collection and dissemination of information.





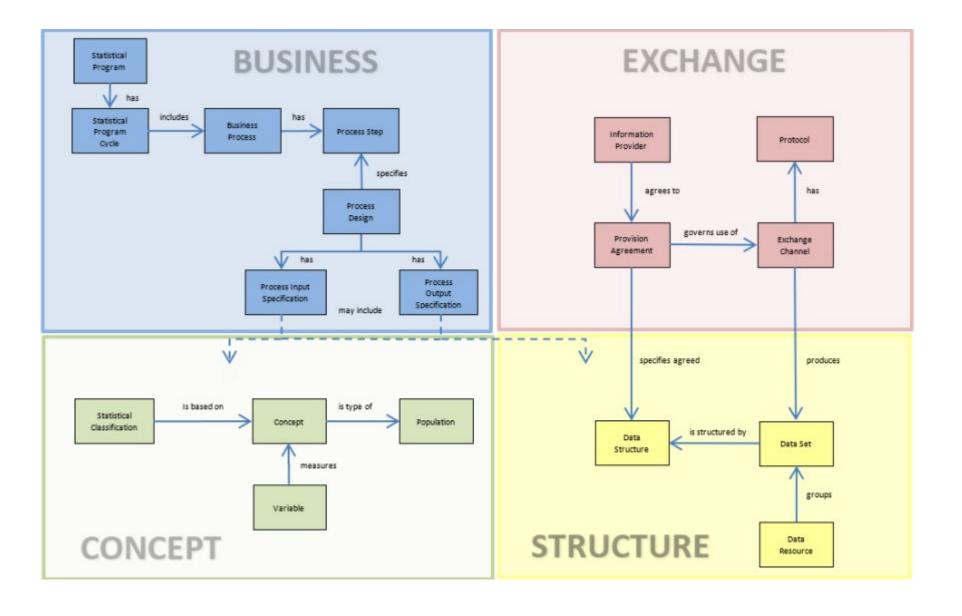
Simplified view of GSIM information objects







GSIM information objects that tell a story







Benefits of GSIM experienced internationally

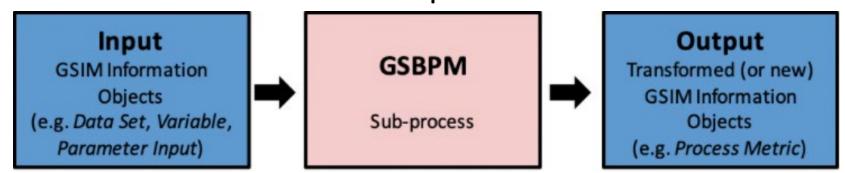
- Provides a common language to improve communication between statistical organizations at national and international levels
- GSIM in combination with GSBPM creates an environment prepared for reuse and sharing of methods, components and processes
- Enables statistical organizations to rethink how their business could be more efficiently organized. by defining objects common to all statistical production, regardless of subject matter
- Provides a common language to improve communication between the different roles in statistical production (business and information technology experts)





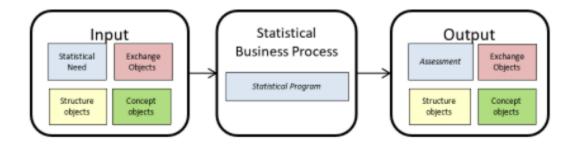
What is the relationship between GSIM & GSBPM?

- GSIM and GSBPM are complementary models for the production and management of statistical information. Greater value will be obtained from both models if they are applied together.
- GSBPM models the statistical production process and identifies the activities undertaken by producers of official statistics that result in information outputs.
- GSIM helps describe GSBPM sub-processes by defining the information objects that are used by them, that flow between them, and are created in them in order to produce official statistics.





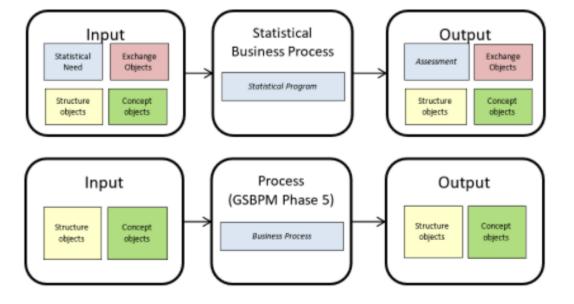




If the GSBPM is considered as a frame of reference for statistical production processes, the top level can be considered as equivalent to the statistical production process as a whole.



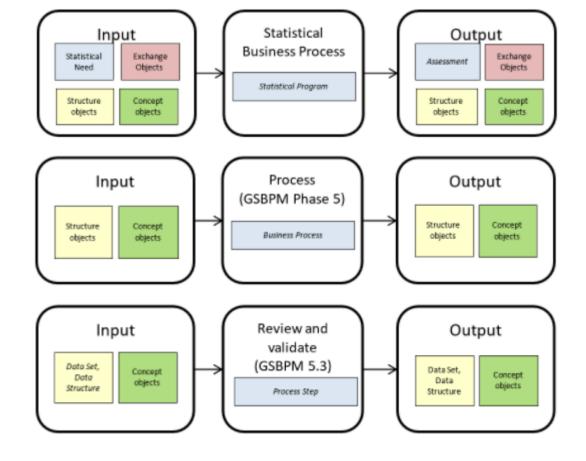




The next level down corresponds to a phase of the statistical production process (for example the "Process" phase of the GSBPM).



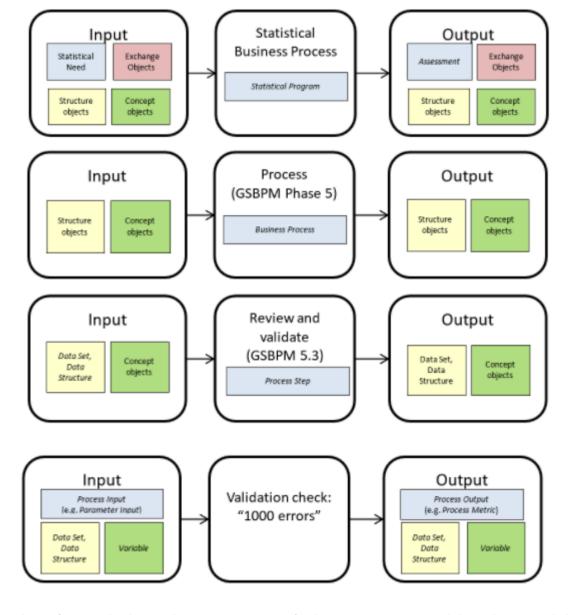




The third level corresponds to a sub-process (for example sub-process 5.3 of the GSBPM – Review and validate).



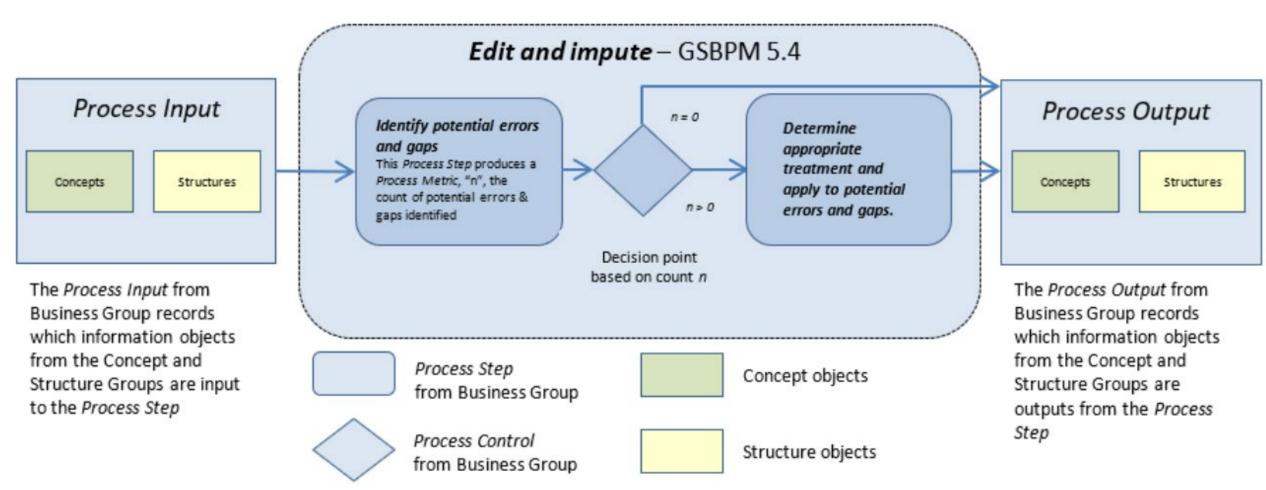




The fourth level consists of the individual building blocks within the sub-process, such as detecting financial values that might have factor thousand errors.



Designing your own imputation process







Where can I find out more?

UNECE - GSIM Wiki

2) Glossary

GSIM v1.2 documents

New Documents on GSIM v1.2 (UML Diagram, Glossary, Enterprise Architect file, change log etc.)

https://statswiki.unece.org/display/gsim/Generic+Statistical+Information+Model

3) Clickable GSIM



Clickable GSIM

New Clickable GSIM v1.2



GSIM E-training

New GSIM E-training (videos, presentation files, etc.)



Communicating GSIM

Communication Paper for a General Statistical Audience, GSIM Brochures and Posters



1) Communication paper



Implementing GSIM

Implementing GSIM



Previous versions of GSIM

Previous versions of GSIM and Change Log



GSIM and other standards

GSIM objects linked to DDI, SDMX, ISO 11179 and Neuchatel



GSIM Statistical Classification Model

GSIM Statistical Classification Model



Uses of GSIM

Use cases of GSIM: Remote Access Infrastructure for Register Data (RAIRD) Information Model



GSIM Discussion Forum

Questions about GSIM? Post them here!







Generic Statistical Information Model



PAGE TREE

- > GSIM and standards
- > GSIM Discussion Forum
- Uses of GSIM
- GSIM resources repository
- > Old versions of GSIM
- - GSIM v1.2 main changes
 - Click on Enterprise Architect Object
 - GSIM v1.2 Glossar
 - GSIM v1.2 Communication Paper
- Etraining

Dashboard / Generic Statistical Information Model / GSIM v1.2 documents 🏻 🙋 🛆 651 views

GSIM v1.2 Glossary

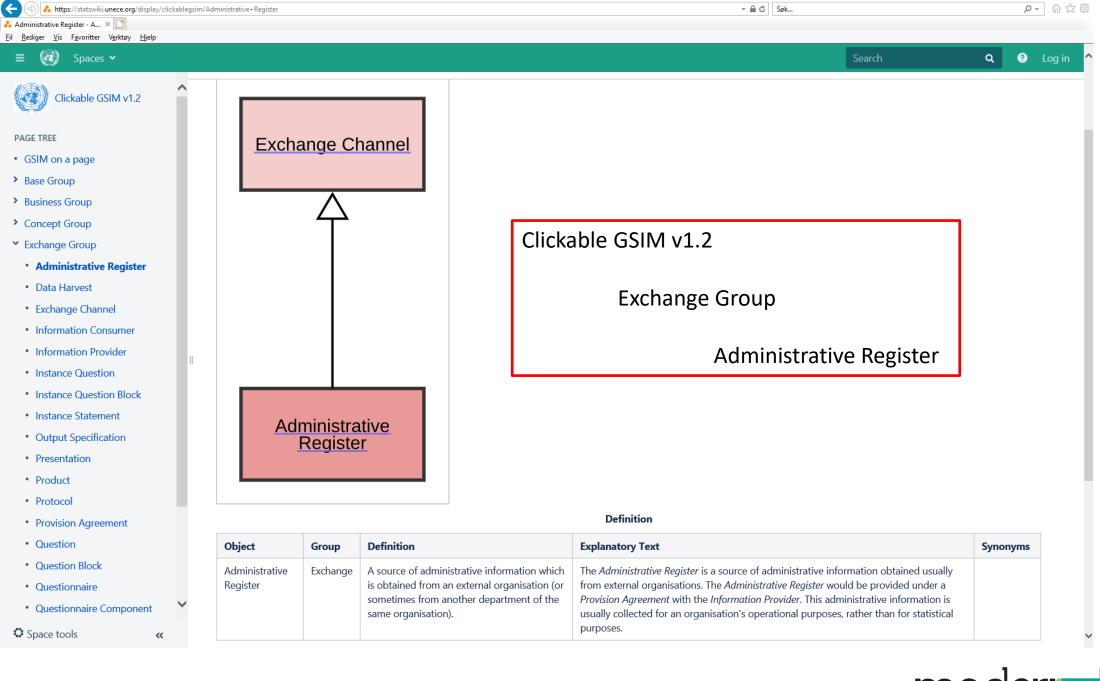
Created by InKyung Choi, last modified by a Sort by Object or Group

Word version: GSIM v1.2 - Glossary.docx

	Object	Group	Definition	Explanatory Text
	Administrative Details	Base	Extensions to the model based on an organization's administrative needs.	The Administrative Details of allow for future extensions to information to be added about maintain the other objects o
	Agent	Base	An <i>Agent</i> is someone or something that bears some form of responsibility for a <i>Business Process</i> taking place, for the existence of an entity, or for another agent's <i>Business Process</i> .	An Agent may be either an C An Organization may be an organization, such as depart sub Agents, which may be eit parent Organization or Indiv
	Agent In Role	Base	An <i>Agent</i> acting in a specific <i>Role</i> .	In the Organization Ontolog
	Change Event	Base	A Change Event captures that a change has	A Change Event can be appli











Any questions?



